


# Logic Design of Switching Circuits Vol. 2: Sequential Circuits - The Ultimate Guide

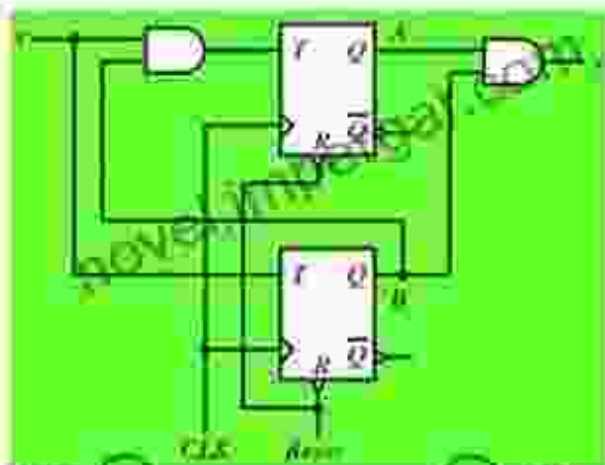


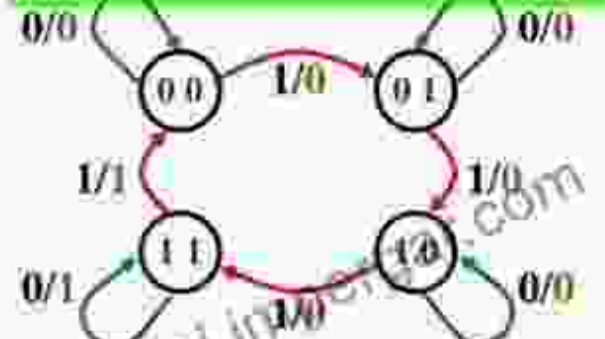
## Analysis of Clocked Sequential Circuits

★ **T Flip-Flops**

*Example:*

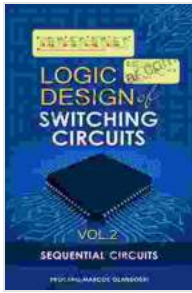
| Present State | I/P |   | Next State |   | FF Inputs      |                | O/P |
|---------------|-----|---|------------|---|----------------|----------------|-----|
| A             | B   | z | A          | B | T <sub>1</sub> | T <sub>2</sub> | Y   |
| 0             | 0   | 0 | 0          | 0 | 0              | 0              | 0   |
| 0             | 0   | 1 | 0          | 1 | 0              | 1              | 0   |
| 0             | 1   | 0 | 0          | 1 | 0              | 0              | 0   |
| 0             | 1   | 1 | 1          | 0 | 1              | 1              | 0   |
| 1             | 0   | 0 | 1          | 0 | 0              | 0              | 0   |
| 1             | 0   | 1 | 1          | 1 | 0              | 1              | 0   |
| 1             | 1   | 0 | 1          | 1 | 0              | 0              | 1   |
| 1             | 1   | 1 | 0          | 0 | 1              | 1              | 1   |





41

Logic Design of Switching Circuits, Volume 2: Sequential Circuits is a comprehensive and authoritative guide to the design of sequential circuits for use in digital systems. This book provides a thorough understanding of the principles of sequential circuit design and how to apply these principles to practical problems. Written by H. S. Mehta, a renowned authority in the field, this book is an essential resource for anyone involved in the design of digital systems.



## Logic Design Of Switching Circuits - Vol. 2: Sequential Circuits by Robert Watchman

★★★★★ 5 out of 5

Language : English  
File size : 9513 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Print length : 42 pages  
Lending : Enabled



### Key Features

- Provides a comprehensive overview of the principles of sequential circuit design
- Covers a wide range of topics, including state machines, flip-flops, and counters
- Includes numerous worked examples and practice problems to help you master the material
- Written by a renowned authority in the field

### What's Inside?

This book is divided into three parts:

#### 1. Part 1: to Sequential Circuits

This part provides an overview of the principles of sequential circuit design. It covers topics such as state machines, flip-flops, and counters.

## 2. Part 2: Design of Sequential Circuits

This part covers the design of sequential circuits using a variety of techniques. It includes topics such as synchronous and asynchronous design, state assignment, and fault analysis.

## 3. Part 3: Applications of Sequential Circuits

This part covers the applications of sequential circuits in a variety of digital systems. It includes topics such as digital clocks, counters, shift registers, and finite state machines.

### Who Should Read This Book?

This book is intended for anyone involved in the design of digital systems. It is an essential resource for:

- Digital design engineers
- Computer scientists
- Electrical engineers
- Students of digital design

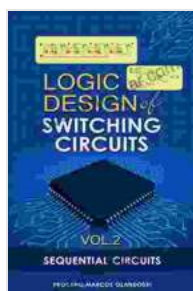
### About the Author

H. S. Mehta is a renowned authority in the field of digital design. He has written numerous books and articles on the subject, and he has taught digital design at the university level for over 30 years. Dr. Mehta is a Fellow of the IEEE and a member of the ACM.

Logic Design of Switching Circuits, Volume 2: Sequential Circuits is the definitive guide to the design of sequential circuits. This book provides a thorough understanding of the principles of sequential circuit design and how to apply these principles to practical problems. Written by a renowned authority in the field, this book is an essential resource for anyone involved in the design of digital systems.

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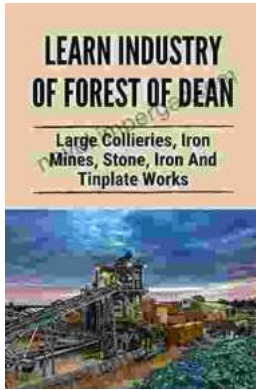


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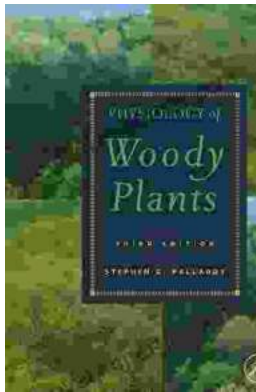
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